Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-10-22-33** **Date: 25-02-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Works in Ward No 2 of Yelahanka Sub Division.
Agency	:	Sri.G.Muniraju(K B S ENGINEERING WORKS), No: 52, 4th Cross 4th Main Kote Street, Yelahanka Bangalore-560064.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/118/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	22-02-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-02-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	213	213	1.4	98.6	90-100
3	20 mm	7452	7665	51.1	48.9	30-70
4	10 mm	4264	11929	79.5	20.5	10-35
5	4.75 mm	2842	14771	98.5	1.5	0-5
6	Pan	229	15000	100.0	0	---

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AE-02

CIVIL Pro Sig Date BANGALORE

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-10-22-33** **Date: 25-02-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Works in Ward No 2 of Yelahanka Sub Division.
Agency	:	Sri.G Muniraju(K B S ENGINEERING WORKS), No: 52, 4th Cross 4th Main Kote Street, Yelahanka Bangalore-560064.
Customer Reference	:	EE(YNK.D)E-PMT-03/W.O/118/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-02-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-02-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	223	223	4.5	95.5	90-100
3	10 mm	2844	3067	61.3	38.7	25-55
4	4.75 mm	1743	4810	96.2	3.8	0-10
5	Pan	190	5000	100	0	

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AE-2

CIVIL Pro Sig Date BANGALORE

Format No: CP TF 01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2019-10-22-33 Date: 25-02-19
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Works in Ward No 2 of Yelahanka Sub Division.
Agency	:	Sri.G.Munirajut(K B S ENGINEERING WORKS), Site 52, 4th Cross 4th Main Kote Street, Yelahanka Bangalore-560064.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/118/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-02-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test	:	22-02-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Gradiag Zone II

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2019-10-22-33** **Date: 06-03-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Works in Ward No 2 of Yelahanka Sub Division.
Agency	:	Sri.G.Muniraju(K B S ENGINEERING WORKS), No: 52, 4th Cross 4th Main Kote Street, Yelahanka Bangalore-560064.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/118/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-03-19
Sample Type /Size	:	Precast Cover Slab(100 mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	02/03/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

Note:

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Authorized Signatory
Technical Manager

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2019-10-22-33 **Date: 06-03-19**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Emergency Works in Ward No 2 of Yelahanka Sub Division.

Agency : Sri.G.Muniraju(K B S ENGINEERING WORKS), No: 52, 4th Cross 4th Main Kote Street, Yelahanka Bangalore-560064.

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/118/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-03-19

Sample Type /Size : Precast Cover Slab(250 mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 02/03/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.52	250.49	3.114	31574	240.8	7.6	7.1	8.9
2	Cover Slab-2	200.48	250.52	3.116	31561	241.3	7.6	7.1	8.9
3	Cover Slab-3	200.51	2R50.50	3.112	31570	241.6	7.7	7.1	8.9

Note:

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	CP-2019-10-22-33	**Date: 11-03-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Emergency Works in Ward No 2 of Yelahanka Sub Division.	
Agency	:	Sri.G.Muniraju(K B S ENGINEERING WORKS), No: 52, 4th Cross 4th Main Kote Street, Yelahanka Bangalore-560064.	
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/118/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	07-03-19	
Sample Type /Size	:	CC Kerb Stone/ 450*200*400mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	07/03/2019	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	150.01	200.51	3.164	17670	182.1	10.3	10.3	12.9
2	B	150.03	200.49	3.193	17675	185.2	10.5	10.5	13.1
3	C	150.01	200.50	3.115	17670	185.1	10.5	10.5	13.1

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R. Rudraprasad

R RUDRAPRASAD
Authorized Signatory
Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-10-22-33 **Date: 07/03/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Emergency Works in Ward No 2 of Yelahanka Sub Division.

Agency : Sri.G.Muniraju(K B S ENGINEERING WORKS), No: 52, 4th Cross 4th Main Kote Street, Yelahanka Bangalore-560064.

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/118/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-03-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 07/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	28/02/2019	07/03/2019	150.34 X 151.77 X 151.79	22817	8.641	412.3	18.1	18.2
2	RCC	M20	28/02/2019	07/03/2019	149.23 X 150.86 X 149.30	22513	8.759	414.7	18.4	
3	RCC	M20	28/02/2019	07/03/2019	151.79 X 151.71 X 150.01	23027	8.680	420.3	18.3	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-22-33** **Date: 07/03/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Emergency Works in Ward No 2 of Yelahanka Sub Division.

Agency : Sri G.Muniraju(K B S ENGINEERING WORKS), No: 52, 4th Cross 4th Main Kote Street, Yelahanka Bangalore-560064.

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/118/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-03-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	28/02/2019	07/03/2019	151.33 X 149.62 X 149.96	22642	8.641	409.7	18.1	18.3
2	RCC	M20	28/02/2019	07/03/2019	150.65 X 151.19 X 149.65	22777	8.759	419.4	18.4	
3	RCC	M20	28/02/2019	07/03/2019	150.76 X 150.45 X 150.80	22681	8.680	417.1	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-22-33** **Date: 07/03/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Emergency Works in Ward No 2 of Yelahanka Sub Division.

Agency : Sri.G.Muniraju(K B S ENGINEERING WORKS), No: 52, 4th Cross 4th Main Kote Street, Yelahanka Bangalore-560064.

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/118/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-03-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 07/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	28/02/2019	07/03/2019	149.65 X 150.54 X 151.89	22529	8.641	422.8	18.8	18.7
2	RCC	M20	28/02/2019	07/03/2019	151.18 X 150.62 X 150.15	22770	8.759	426.1	18.7	
3	RCC	M20	28/02/2019	07/03/2019	151.26 X 150.63 X 149.29	22784	8.680	424.3	18.6	

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-10-22-33 **Date: 25-02-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Works in Ward No 2 of Yelahanka Sub Division.
Agency	:	Sri.G Muniraju(K B S ENGINEERING WORKS), No: 52, 4th Cross 4th Main Kote Street, Yelahanka Bangalore-560064.
Customer's Reference	:	EE(YNK D)E-PMT-03/W O/118/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-02-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11 DETERMINATION OF DENSITY Clause 6
Date of test	:	23-02-19
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.88	–
2	Finess by Air permeablity method (m^2/kg.Min)	348.2	225m^2/kg. Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	130 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.0mm	Not more than 10 mm

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/03/2019

Lab ID	:	CP-2019-10-22-33
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Works in Ward No 2 of Yelahanka Sub Division
Agency	:	Sri.G.Muniraju(K B S ENGINEERING WORKS), No: 52, 4th Cross 4th Main Kote Street, Yelahanka Bangalore-560064
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/118/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-19
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	07/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	28/02/2019	07/03/2019	150.63 X 150.75 X 151.11	22707	8.641	425.5	18.7	18.4
2	RCC	M20	28/02/2019	07/03/2019	151.37 X 151.62 X 150.33	22950	8.759	420.8	18.3	
3	RCC	M20	28/02/2019	07/03/2019	150.74 X 151.52 X 151.77	22840	8.680	411.8	18.0	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/03/2019

Lab ID	:	**CP-2019-10-22-33**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Works in Ward No 2 of Yelahanka Sub Division.
Agency	:	Sri.G.Muniraju(K B S ENGINEERING WORKS), No: 52, 4th Cross 4th Main Kote Street, Yelahanka Bangalore-560064.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/118/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-19
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	28/02/2019	28/03/2019	150.52 X 150.40 X 151.86	22638	8.973	535.4	23.6	23.3
2	RCC	M20	28/02/2019	28/03/2019	151.66 X 149.25 X 150.18	22635	8.382	516.2	22.8	
3	RCC	M20	28/02/2019	28/03/2019	150.73 X 149.50 X 149.13	22534	8.804	531.6	23.6	

Note:
1. The results pertain to the samples received and tested.
2. All information furnished by Customer/Representative
3. Any correction in the report will make this report invalid
4. This report without prior written approval should not be reproduced or published in full or part
5. Samples will be disposed after 90 days from the date of issue of test certificate

AE-2 A.E.E AE-02

FOR CIVIL Pro.

CIVIL Pro Sig. Date BANGALORE

R RUDRAPRASAD
Authorized Signatory
Technical Manager

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****End of Report****

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